

6546

D/A 10-bit 4:2:2 to Analog Video and De-embedded Audio

The 6546 is a compact full featured high quality 10-bit 4:2:2 SMPTE 259M / ITU-R.BT656 serial digital converter to Analog Composite, Y/C and Component YPbPr and RGB with De-embedded audio in both AES/EBU and Analog outputs.

The 10-bit encoding engine up-converts 4:2:2 to 4:4:4 the 4x over-samples outputs to 16:16:16 for improved signal performance. An internal VCXO with de-jitter loop filter to 2Hz reduces digital jitter before the encoding process. An optional Genlock circuit, color frames the 6540 for timed environments.

Full user digital processing controls, with user memory allows digital adjustment of Gain, DC Offset, Saturation Hue (Hue on composite & Y/C), Gamma and Digital Noise Reduction. Factory presets enable a return to factory settings.

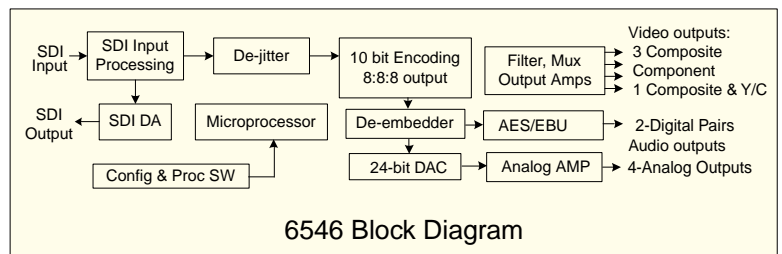
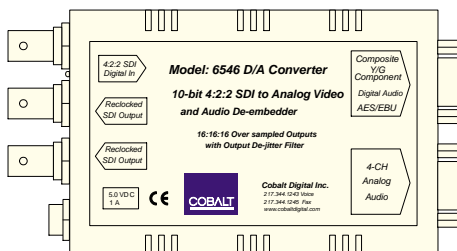
Features

- ◆ 10-bit Video conversion with 24-bit Audio de-embedding
- ◆ Three user configurable analog outputs: Composite, Component (YPbPr & RGB) and Y/C outputs
- ◆ Supports Component BetaCam™, MII™ and SMPTE/N10
- ◆ 10-bit path; 16:16:16 over-sampled outputs
- ◆ Internal user Digital Proc. configuration and control
- ◆ SDI De-jitter filter to 2Hz
- ◆ Internal color bar generator
- ◆ 2 AES / EBU digital Audio stereo pairs (75 ohms)
- ◆ 4 analog 24-bit audio (balanced) outputs
- ◆ Adjustable analog level control
- ◆ External user configuration switches
- ◆ External LED with status of Power and Input Lock
- ◆ Compact rugged steel chassis
- ◆ Five year warranty



Specifications

Digital Input	270 Mbit SDI SMPTE 259M-C ITU-R.BT656.3
Digital Outputs	Two relocked SDI
Return Loss	> 17 dB at 270 Mbit
Standards	NTSC-M, NTSC-N (Japan), PAL N, PAL-B/D/G/H/I and PAL-60 525 or 625 auto detect and configure
Analog Video	Three outputs user configurable: all composite, component or composite with Y/C
Component Mode	YPbPr with BetaCam™, MII™ or SMPTE/N10 levels and RGB
Return Loss	> 35 dB
Output Jitter	Internal Digital De-jitter filter to 2Hz
D/A Process	16:16:16 over-sampled 10-bit video path
Freq. Resp.	5 MHz +/- 0.15 dB, 0-6.75 MHz +/-0.25 dB
Diff. Gain	< 1%
Diff. Phase	< 1 degree
S/N	> 70 dB
Digital Audio	2-AES/EBU Stereo Pairs (75 Ohm)
Analog Audio	4-Analog Audio (balanced) outputs
Audio Resolution	24-bits
Frequency Resp.	20-20KHz +/- 0.5 dB
Electrical Length	< 2 us
Power	5 VDC at 1 A
Size	5.5"x3"x1" (139x77x26 mm)



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